Civil Infra

No. 186, Ground Floor, CIL Layout
Cholanayakana Halli, R.T. Nagar (P), Bangalore - 560032

Date : 28-08-2019

No.CI/3rd party/BBMP/w-11/2018-19

To,
Executive Engineer (Elec.)
Yelahanka Project Division,
BBMP, Bangalore.

"3RD PARTY / PMC INSPECTION REPORT"

Dear Sir,

Sub: Regarding Inspection Report for below Mentioned Work.

Name of Work : Providing Street Lights and Maintenance in Ward No 11 Kuvempunagara.

Item No	Description of Work	Unit	Quantity
1	Supply and erection of .....Mtr RCC Pole including earth work etc,. complete as per the standard technical specification of BESCOM 8Mtr 145Kg WL	Nos	15.00
2	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & FixtureEfficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight .LED Streetlight 24watts	Each	25.00
3	65watts	Each	80.00
4	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. Using 32mm dia G.I.pipe	Each	103.00
5	Wiring for lighting/power circuit using one of PVC insulated 1100v grade stranded Aluminium unsheathed wire single core/multi core cable in open or consealed system of wiring. a)4 sqmm.	Each	300.00
6	Supplying of 1.1kv grade Aerial Bunched cable stranded & compacted Aluminium Phase conductor and Stranded Messenger conductor with all aluminium alloy, Phase conductor is insulated with XLPE compound insulated Messenger with specified IS - 14255:1995 & confirming to GTP of group A. 2 X 25 + 1 X 25 SQ.MM	Per Mtr	600.00

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7	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM	Per Mtr	600.00
8	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm	Nos	7.00
9	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps25kA.	Nos	7.00
10	Open Conduit Systeme: Supplying heavy gauge PVC conditpipe,,,,,,,,,, dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plug incase of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. c)25mm dia 2mm thick	Mtrs	40.00
11	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. A)40x40x6mm.	Mtrs	10.00
12	Supplying and stringing of ACSR Conductor (6/2.59mm Al +1/2.59mm Steel).	Mtrs	2000.00
13	Supplying and Fixing .....including all Hardware's etc. complete as per the standard technical specification of BESCOM 1.1 KV Pin Insulator	Nos	40.00
14	No. 8 Strain Insulator	Nos	40.00
15	Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification of BESCOM. 2 Pin 45x45x5mm -510mm	Nos	48.00
16	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos	39.00
17	Supplay and erection of Single phase Thyristor based smart street light control system consisting of following aquipments1. Precise turn ON & OFF of street lights on pre programmed data2. 2 x 16 character LCD display unit to display date, status ON Or OFF , turn ON & OFF time, 3. Keypad to set/edit ON & OFF time as per the end user4. Microcontroller with Real Time Clock and associated hardware5. 1 No, SCR 162 amps thyristor module for load switching mounted on an extruded alluminium heat sink6. Thyristor Driver Card: Driver control circuit to switch ON & OFF the Thyristor module7. Firmware: Firmware to control the hardware and display the required data8. Power Supply: AC to DC conversion circuit required for the electronic circuitry and driver control card9. Enclosure is made out of 18 swg CRCA ms sheet of size H480xW310XD200mm with luvers for Heat dissipation IP65 weather proof metal enclosure 10. Wiring & other components like wiring, connectors ,insulators, Alluminium Bus bar and 2 nos of 125 amps single pole MCB for main power Supply control and Manual On & off operation & etc complete.	Set	9.00
18	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Per Mtr	500.00
19	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Per Mtr	500.00
20	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	Per Mtr	425.00

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21	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100-125Amps	Each	1.00
22	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40-63Amps TPN	Each	1.00
23	Supplying and fixing of Twin Dial electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc.. Group A, PWD SR 2007-08,	Each	1.00
24	Fabricating supplying and mounting MS box made out... SWG suitable Ifor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	Nos	25000.00

With respect to the above subject and name of work, we have inspected the work and the Quantity and quality of above mentioned items of the work was found to be completed satisfactorily for the 1st and final bill.

Thanking you,

With Regards,

For Civil Infra Consultancy
22/8/19

CIVIL INFRA BANGALORE

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Date : 28-08-2019

To,
Executive Engineer (Elec.)
Yelahanka Project Division,
BBMP, Bangalore.

Dear Sir,

Sub: M/s. Civil Infra Consultants Services for work of Providing Street Lights and Maintenance in Ward No 11 Kuvempunagara.

Ref: 1. Work Order No: EE(Project)/Ynk zone/WO/92/18-19
2. Job code: 011-19-000085.

We are herewith forwarding to sri. S Somasekhar, First and Final Bill duly verified and certified that the work is satisifactory and for a Gross value of Rs 25,90,776.10 (Rs. Twenty Five Lakhs Ninty Thousand Seven Hundreed and Seventy Six and One paise only).

Thanking You,

Yours faithfully,
For CIVIL INFRA

For CIVIL INFRA
Partner 28/8/19

CHARAN N S B.E, M.Tech
PRINCIPAL CONSULTANT
CIVIL INFRA CONSULTANCY

Ph No : +91 9742094440 **Email : civilinfra.con@gmail.com**